Hit List

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Search Results - Record(s) 1 through 11 of 11 returned.

1. Document ID: US 20040103111 A1

Using default format because multiple data bases are involved.

L5: Entry 1 of 11

File: PGPB

May 27, 2004

PGPUB-DOCUMENT-NUMBER: 20040103111

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040103111 A1

TITLE: Method and computer program product for determining an area of importance in an image

using eye monitoring information

PUBLICATION-DATE: May 27, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Miller, Michael E. Rochester NY US Cerosaletti, Cathleen D. Rochester US NY Fedorovskaya, Elena A. Pittsford NY US Covannon, Edward A. Ontario NY US

US-CL-CURRENT: 707/102

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Drawi Desc	mage
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2. Document ID: US 20030204488 A1

L5: Entry 2 of 11

File: PGPB

Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030204488

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030204488 A1

TITLE: Management system, management method and apparatus, and management apparatus control

method

PUBLICATION-DATE: October 30, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Sentoku, Koichi Tochiqi JP

Ina, Hideki Kanagawa JP Suzuki, Takehiko Saitama JP Matsumoto, Takahiro

Tochigi

JΡ

Oishi, Satoru

Tochigi

JΡ

US-CL-CURRENT: 707/1

-	Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	1000C	Drawi Desc	Image

3. Document ID: US 20030069885 A1

L5: Entry 3 of 11

File: PGPB

Apr 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030069885

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030069885 A1

TITLE: Integrated service platform

PUBLICATION-DATE: April 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Chang, Da-Yi	Kaohsiung		TW
Lin, Chun-Hung	Hsinchu		TW
Li, Kun-Pei	Miaoli		TW
Ting, Hsiu-Lan	Hsinchu		TW
Tu, Kung-Cheng	Kaohsiung		TW
Sun, Mao-Shing	Taipei		${f TW}$

US-CL-CURRENT: 707/10

Full Title	Citation Front Revi	wo Classification Date Re	eference Saquencas	Attachments Claims Kill	IC Draint Desc Image

4. Document ID: US 20030061212 A1

L5: Entry 4 of 11

File: PGPB

Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030061212

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030061212 A1

TITLE: Method and apparatus for analyzing manufacturing data

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Smith, Shawn B. Palo Alto CA US Grigsby, Brian P. Austin TX US Pham, Hung J. Leander TX US

Davis, Tony L. Yedatore, Manjunath S. Clements, William R. III Austin TX US
Austin TX US
Austin TX US

US-CL-CURRENT: 707/6

Full Title Citation Front	Review Classification Date Reference	Sequences Attachments Claims	KWC Draw Desc Image

5. Document ID: US 20010047222 A1

L5: Entry 5 of 11

File: PGPB

Nov 29, 2001

PGPUB-DOCUMENT-NUMBER: 20010047222

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010047222 A1

TITLE: Reticle management system

PUBLICATION-DATE: November 29, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Wiesler, Oren

Wayland

MΑ

US

Mariano, Thomas

Londonderry

NH

US

US-CL-CURRENT: 700/214; 700/121, 707/100, 716/21

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	LONGC	Draws Desc	Image

6. Document ID: US 6965895 B2

L5: Entry 6 of 11

File: USPT

Nov 15, 2005

US-PAT-NO: 6965895

DOCUMENT-IDENTIFIER: US 6965895 B2

TITLE: Method and apparatus for analyzing manufacturing data

DATE-ISSUED: November 15, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Smith; Shawn B. Palo Alto CA Grigsby; Brian P. Austin TX Pham; Hung J. Leander TXDavis; Tony L. Austin TXYedatore; Manjunath S. Austin TX Clements, III; William R. Austin TX

Record List Display Page 4 of 13

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Applied Materials, Inc. Santa Clara CA 02

APPL-NO: 10/194920 [PALM]
DATE FILED: July 12, 2002

PARENT-CASE:

This application claims the benefit of: (1) U.S. Provisional Application No. 60/305,256, filed on Jul. 16, 2001; (2) U.S. Provisional Application No. 60/308,125, filed on Jul. 30, 2001; (3) U.S. Provisional Application No. 60/308,121 filed on Jul. 30, 2001; (4) U.S. Provisional Application No. 60/308,124 filed on Jul. 30, 2001; (5) U.S. Provisional Application No. 60/308,123 filed on Jul. 30, 2001; (6) U.S. Provisional Application No. 60/308,122 filed on Jul. 30, 2001; (7) U.S. Provisional Application No. 60/309,787 filed on Aug. 6, 2001; and (8) U.S. Provisional Application No. 60/310,632 filed on Aug. 6, 2001, all of which are incorporated herein by reference.

INT-CL-ISSUED: [07] $\underline{G06} + \underline{17/30}$

US-CL-ISSUED: 707/10; 707/5, 707/6, 707/101, 707/104.1, 706/25 US-CL-CURRENT: 707/10; 706/25, 707/101, 707/104.1, 707/5, 707/6

FIELD-OF-CLASSIFICATION-SEARCH: 707/5, 707/6, 707/10, 707/101, 707/104.1, 707/1, 707/3,

707/103Y, 706/11, 706/12, 706/16, 706/25, 706/26, 706/44, 715/854

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
5097141	March 1992	Leivian et al.	706/12
5222210	June 1993	Leivian et al.	715/854
5692107	November 1997	Simoudis et al.	395/50
5819245	October 1998	Peterson et al.	706/16
5897627	April 1999	Leivian et al.	706/12
<u>5926809</u>	July 1999	Szalwinski	707/3
<u>6571227</u>	May 2003	Agrafiotis et al.	706/15
<u>6839713</u>	January 2005	Shi et al.	707/101
6878517	April 2005	Benson	435/6

OTHER PUBLICATIONS

ART-UNIT: 2162

[&]quot;Mining <u>semiconductor</u> manufacturing data for productivity improvement . . . " by R. M. Dabbas et al. in Computers in Industry, vol. 45. pp. 29-44, May 2001.

[&]quot;Solving Tough <u>Semiconductor</u> Manufacturing Problems Using Data Mining" by R. Gardner et al. IEEE/SEMI Advanced <u>Semiconductor</u> Manuf. Conf. Sep. 12, 2000, pp. 46-55.

[&]quot;Yield Analysis and Data Management Using Yield Manager" by F. Lee et al., IEEE/SEMI Advanced Semiconductor Manuf. Conf. Sep. 22-25, 1998, pp. 19-30.

[&]quot;Architecture of Data Mining Server: DATAFRONT/Serveer" by H. Ashida et al. Systems, Man and Cybernetics, 1999, IEEE SMC '99 Conference Proc. Oct. 12, 1999 pp. 882-887.

Record List Display Page 5 of 13

PRIMARY-EXAMINER: Alam; Shahid

ATTY-AGENT-FIRM: Stern; Robert J.

ABSTRACT:

A method for data mining information obtained in an integrated circuit fabrication factory ("fab") that includes steps of: (a) gathering data from the fab from one or more of systems, tools, and <u>databases</u> that produce data in the fab or collect data from the fab; (b) formatting the data and storing the formatted data in a source <u>database</u>; (c) extracting portions of the data for use in data mining in accordance with a user specified configuration file; (d) data mining the extracted portions of data in response to a user specified analysis configuration file; (e) storing results of data mining in a results <u>database</u>; and (f) providing access to the results.

24 Claims, 26 Drawing figures

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7. Document ID: US 6789079 B2

L5: Entry 7 of 11 File: USPT Sep 7, 2004

US-PAT-NO: 6789079

DOCUMENT-IDENTIFIER: US 6789079 B2

TITLE: Integrated service platform

DATE-ISSUED: September 7, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Chang; Da-Yi Kaohsiung тw Lin; Chun-Hung Hsinchu TW Li; Kun-Pei Miaoli TW Ting; Hsiu-Lan Hsinchu ТW Tu; Kung-Cheng Kaohsiung TW Sun; Mao-Shing Taipei TW

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Macronix International Co., Ltd. TW 03

APPL-NO: 09/971842 [PALM] DATE FILED: October 5, 2001

INT-CL-ISSUED: [07] G06 F 17/30

US-CL-ISSUED: 707/10; 707/3, 707/100, 709/225 US-CL-CURRENT: <u>707/10</u>; <u>707/100</u>, <u>707/3</u>, <u>709/225</u> Record List Display Page 6 of 13

FIELD-OF-CLASSIFICATION-SEARCH: 707/1-10, 707/100-104.1, 707/200-206, 709/223-227, 713/202, 700/96, 700/91

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
5918232	June 1999	Pouschine et al.	707/103R
6012067	January 2000	Sarkar	707/103R
6125363	September 2000	Buzzeo et al.	707/100
6295535	September 2001	Radcliffe et al.	707/10

OTHER PUBLICATIONS

Martin Hard Wick et al., Sharing Manufacturing Information in Virtual Enterprises, Feb. 1996, Communications of the ACM, 46-54.

ART-UNIT: 2172

PRIMARY-EXAMINER: Alam; Shahid

ASSISTANT-EXAMINER: Fleurantin; Jean Bolte

ATTY-AGENT-FIRM: Dickinson Wright PLLC

ABSTRACT:

The present invention discloses an integrated service platform (ISP). Under the real-time mode, the ISP of the present invention comprises the devices of: an engineering data analysis database (EDB); an area controller database (AC Database); a web server; and client computers. Under the mode of accessing data in a certain period of time, the present invention comprises the devices of: an EDB; an AC Database; a loader; a web server; and client computers. The application of the ISP of the present invention allows users on the client sites to access the data they want with browsers. Thus, no disturbance of the maintenance on the client sites would occur, because the browsers are used for accessing the data.

11 Claims, 3 Drawing figures

Full Title Citation			Reference	Claims	KMC	Dram Desc Image
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8. Document ID: US 6735493 B1

L5: Entry 8 of 11

File: USPT

May 11, 2004

US-PAT-NO: 6735493

DOCUMENT-IDENTIFIER: US 6735493 B1

** See image for Certificate of Correction **

Record List Display Page 7 of 13

TITLE: Recipe management system

DATE-ISSUED: May 11, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Chou; Alton Jubei TW
Wei; Chen-Hsien Namton TW

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Taiwan <u>Semiconductor</u> Manufacturing Co., Ltd. Hsin-Chu TW 03

APPL-NO: 10/274575 [PALM]
DATE FILED: October 21, 2002

INT-CL-ISSUED: [07] G06 F 19/00

US-CL-ISSUED: 700/121; 700/96, 700/110, 707/203, 717/170 US-CL-CURRENT: 700/121; 700/110, 700/96, 707/203, 717/170

FIELD-OF-CLASSIFICATION-SEARCH: 700/26, 700/27, 700/96, 700/109, 700/110, 700/117, 700/121,

707/203, 717/170-173, 717/168

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

10
21
4
21
7
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OTHER PUBLICATIONS

W. Jarret Campbell, PH. D., "Run-to-Run Control of Photolithography Processes," Special Focus Lithography, Yield Management Solutions, Summer 2000, pp. 65-68.

ART-UNIT: 2125

PRIMARY-EXAMINER: Picard; Leo

ASSISTANT-EXAMINER: Rodriguez; Paul

ATTY-AGENT-FIRM: Duane Morris LLP

Record List Display Page 8 of 13

ABSTRACT:

A recipe management system is provided including a processor configured to receive a first job file for a processing tool through a network, said first job file including a master job file for said processing tool. The processor also receives a second job file through the network from a host processor associated with the processing tool. The processor compares the first and second job files, wherein the processor determines whether the first and second job files differ. A semiconductor manufacturing method is also provided. A first job file including a master job file for a processing tool is received through a network. A second job file is also received through the network from a host processor associate with the processing tool The job files are then compared to determine whether the first and second job files differ.

27 Claims, 3 Drawing figures

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Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	COMC	Drawi Desc	Image
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9. Document ID: US 6564171 B1

L5: Entry 9 of 11 File: USPT May 13, 2003

US-PAT-NO: 6564171

DOCUMENT-IDENTIFIER: US 6564171 B1

TITLE: Method and apparatus for parsing event logs to determine tool operability

DATE-ISSUED: May 13, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Peterson; Anastasia Oshelski Austin TX Edwards; Richard Austin TX

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Advanced Micro Devices Inc. Austin TX 02

APPL-NO: 09/661694 [PALM]
DATE FILED: September 14, 2000

INT-CL-ISSUED: [07] $\underline{G06} + \underline{17/60}$, $\underline{G06} + \underline{17/30}$

US-CL-ISSUED: 702/182; 235/379, 370/463, 375/13, 705/1, 702/182, 707/103R, 709/228

US-CL-CURRENT: 702/182; 235/379, 370/463, 705/1, 707/103R, 709/228

FIELD-OF-CLASSIFICATION-SEARCH: 702/84, 702/177, 702/182, 702/185, 702/186, 702/119, 700/65, 700/110, 700/247, 395/75, 395/76, 395/680, 395/682, 370/463, 375/13, 705/1, 707/13R

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
5412758	May 1995	Srikanth et al.	706/59
5452218	September 1995	Tucker et al.	700/110
5455894	October 1995	Conboy et al.	700/247
5465221	November 1995	Merat et al.	702/83
5488648	January 1996	Womble	375/13
5701488	December 1997	Mulchandani et al.	717/128
<u>5757673</u>	May 1998	Osheiski et al.	702/182
5790431	August 1998	Ahrens et al.	709/104
<u>5981478</u>	November 1999	Gill et al.	235/379
5999908	December 1999	Abelow	705/1
<u>6144967</u>	November 2000	Nock	707/103R
<u>6317793</u>	November 2001	Toyosawa	709/228
6370154	April 2002	Wickham	370/463

ART-UNIT: 2863

PRIMARY-EXAMINER: Barlow; John

ASSISTANT-EXAMINER: Le; John

ATTY-AGENT-FIRM: Williams, Morgan & Amerson PC

ABSTRACT:

A method for determining operability of a tool includes generating an event log including a plurality of events associated with the operation of the tool; parsing the event log to identify a crucial event; and initiating an automatic corrective action in response to identifying a crucial event. A manufacturing system includes a tool and a tool monitor. The tool is adapted to generate an event log including a plurality of events associated with the operation of the tool. The tool monitor is adapted to parse the event log to identify a crucial event and initiate an automatic corrective action in response to identifying a crucial event.

33 Claims, 2 Drawing figures

Full Ti	tle Citation Front	Review Classification	Date Reference		Claims KMC	Drawi Desc Image
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10. Document ID: US 6496747 B1

L5: Entry 10 of 11 File: USPT Dec 17, 2002

US-PAT-NO: 6496747

DOCUMENT-IDENTIFIER: US 6496747 B1

** See image for <u>Certificate of Correction</u> **

TITLE: Semiconductor device manufacturing apparatus and information processing system therefor

DATE-ISSUED: December 17, 2002

Record List Display Page 10 of 13

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Suzuki; Daisuke Utsunomiya JP

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Canon Kabushiki Kaisha Tokyo JP 03

APPL-NO: 09/413329 [PALM]
DATE FILED: October 12, 1999

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY APPL-NO APPL-DATE

JP 10-304715 October 13, 1998

INT-CL-ISSUED: [07] $\underline{G06}$ \underline{F} $\underline{19/00}$, $\underline{G06}$ \underline{F} $\underline{17/30}$, $\underline{H01}$ \underline{L} $\underline{21/00}$

US-CL-ISSUED: 700/102; 700/99, 700/121, 438/5, 707/203 US-CL-CURRENT: 700/102; 438/5, 700/121, 700/99, 707/203

FIELD-OF-CLASSIFICATION-SEARCH: 700/3, 700/11, 700/12, 700/27, 700/99-102, 700/121, 438/5,

707/203

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO ISSUE-DATE PATENTEE-NAME US-CL 5838565 November 1998 Hsieh et al. 700/100 6000830 December 1999 Asano et al. 700/100 6035293 March 2000 Lantz et al. 707/1 September 2000 6115640 Tarumi 700/100 6134482 October 2000 Iwasaki 414/14 6148246 November 2000 Kawazome 700/106 6175777 January 2001 Kim 700/121 6230068 May 2001 Wu et al. 379/14 6349287 February 2002 Hayashi 700/103

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO PUBN-DATE COUNTRY CLASS

08-045929 February 1996 JP

ART-UNIT: 2125

PRIMARY-EXAMINER: Picard; Leo

ASSISTANT-EXAMINER: Frank; Elliot

Record List Display Page 11 of 13

ATTY-AGENT-FIRM: Fitzpatrick, Cella, Harper & Scinto

ABSTRACT:

A semiconductor manufacturing system for performing a predetermined process in accordance with a job file having a process content set therein. The manufacturing system includes a storage device for memorizing a job file, an accepting device for accepting a job file, a correction device for correcting, on the basis of a process content of a job file already memorized, a process content set in a job file as newly accepted, and a predicting device for predicting a time for completion of the process, on the basis of the job file as already memorized and the job file having its process content corrected by the correction device.

13 Claims, 8 Drawing figures

Full Title Citation Front	Review Classification Date	Reference	Claims KMC	
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11. Document ID: US 6334215 B1

L5: Entry 11 of 11 File: USPT Dec 25, 2001

US-PAT-NO: 6334215

DOCUMENT-IDENTIFIER: US 6334215 B1

TITLE: Methodology for migration of legacy applications to new product architectures

DATE-ISSUED: December 25, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Barker; Brian C. Poughkeepsie NY Hartswick; Perry G. Millbrook NY

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

International Business Machines Corporation Armonk NY 02

APPL-NO: 09/305431 [PALM] DATE FILED: May 5, 1999

INT-CL-ISSUED: [07] G06 F 9/445

US-CL-ISSUED: 717/11; 717/4, 717/5, 717/7, 707/4

US-CL-CURRENT: <u>717/167</u>; <u>707/4</u>, <u>717/176</u>

FIELD-OF-CLASSIFICATION-SEARCH: 717/11, 717/4, 717/5, 717/7, 707/4, 707/100, 709/231, 710/126

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Record List Display Page 12 of 13

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
5359730	October 1994	Marron	717/11
<u>5806067</u>	September 1998	Connor	707/100
5815149	September 1998	Mutschler, III et al.	345/335
5828897	October 1998	Kirsch et al.	712/43
5899990	May 1999	Maritzen et al.	707/4
6223180	April 2001	Moore et al.	707/100
6247172	June 2001	Dunn et al.	717/5
6253244	June 2001	Moore et al.	709/231
6266729	July 2001	Leung et al.	710/126

OTHER PUBLICATIONS

Title: Managing Semantic Heterogeneity in <u>Databases</u>: A Theoritical Perspective, Author: Hull et al, ACM, 1997.*

Title: Reuse of Off-the_shelf Components in C2 -Style Architecutres, Authour: Medvidovic et al, ACM, 1997.

ART-UNIT: 212

PRIMARY-EXAMINER: Powell; Mark R.

ASSISTANT-EXAMINER: Das; Chameli C.

ATTY-AGENT-FIRM: Ratner & Prestia Townsend, Esq.; Tiffany L.

ABSTRACT:

A method for migrating legacy applications into a new software product architecture using a functional conversion module located within a system controller. The functional conversion module comprises a migration plan shut off. The functional conversion module further comprises three paths or branches through which a functional request can be routed. Functional requests which are not identified in the migration plan are routed through the first path and the functional request is sent to the pre-existing software and executed as requested. Functional requests identified in the migration plan for which the pre-existing software is in control are routed through the second path, and the functional request is sent to the pre-existing software and executed as received. In the background, the functional request is translated for the new software and sent to the new software and executed. Functional requests identified in the migration plan for which the new software is in control are routed through the third path, and the functional request is translated for the new software and sent to the new software and executed. If the pre-existing software has been shut off, the task is complete. If the preexisting software is not identified as being shut off, the functional request is sent to the pre-existing software and executed as received in the background. Duplicate requests are suppressed by the system controller.

5 Claims, 4 Drawing figures

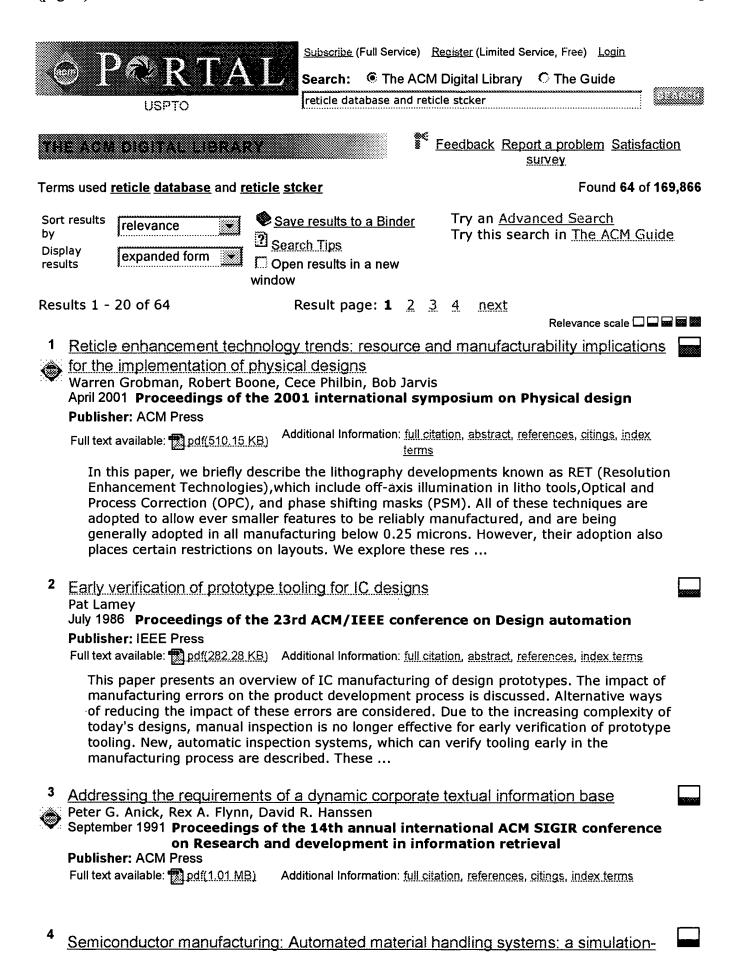
Full	Title	Citation		Classification	Date	Reference		Claims	KMC	Drawi Desc	Image

Record List Display Page 13 of 13

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based design framework for automated material handling systems in 300mm fabrication facilities

Dima Nazzal, Douglas A. Bodner

December 2003 Proceedings of the 35th conference on Winter simulation: driving innovation

Publisher: Winter Simulation Conference

Full text available: pdf(362.35 KB) Additional Information: full citation, abstract, references

This paper describes a methodology to tackle the problem of designing Automated Material Handling Systems (AMHS) for 300mm wafer fabrication facilities. The proposed framework divides the design process into two levels: architectural and elaborative. Prior to the design, fab data are preprocessed using simulation of manufacturing operations. The output data and fab requirements data are then profiled to aid in design decision making at the architectural level. Once architectural design decisi ...

⁵ Floorplanning: Multi-project reticle floorplanning and wafer dicing

Andrew B. Kahng, Ion Mondoiu, Qinke Wang, Xu Xu, Alex Z. Zelikovsky
April 2004 Proceedings of the 2004 international symposium on Physical design
Publisher: ACM Press

Full text available: pdf(313.16 KB) Additional Information: full citation, abstract, references, index terms

Multi-project Wafers (MPW) are an efficient way to share the rising costs of mask tooling between multiple prototype and low production volume designs. Packing the different die images on a multi-project reticle leads to new and highly challenging floorplanning formulations, characterized by unusual constraints and complex objective functions. In this paper we study multi-project reticle floorplanning and wafer dicing problems under the prevalent side-to-side wafer dicing technology. Our contrib ...

Keywords: multi-project wafers, reticle design, wafer dicing

6 Assessment of potential gains in productivity due to proactive reticle management

using discrete event simulation

Sungmin Park, John Fowler, Matt Carlyle, Matt Hickie

December 1999 Proceedings of the 31st conference on Winter simulation: Simulation--a bridge to the future - Volume 1

Publisher: ACM Press

Full text available: pdf(121.69 KB) Additional Information: full citation, references, index terms

7 Semiconductor manufacturing: Automated material handling systems: automated reticle handling: a comparison of distributed and centralized reticle storage and transport

Anne M. Murray, David J. Miller

December 2003 Proceedings of the 35th conference on Winter simulation: driving innovation

Publisher: Winter Simulation Conference

Full text available: pdf(308.46 KB) Additional Information: full citation, abstract, references

The implementation of Automated Material Handling Systems (AMHS) in 300mm semiconductor facilities provides the opportunity to realize significant benefits in fabricator productivity and performance. The leverage associated with automated reticle delivery to photolithography process tools may be less apparent than a fab-wide AMHS. However, a high product mix environment requires the tracking, storage and transportation of thousands of reticles to successfully process wafers on photolithograph ...

8	Placement: Reticle floorplanning of flexible chips for multi-project wafers Meng-Chiou Wu, Rung-Bin Lin April 2005 Proceedings of the 15th ACM Great Lakes symposium on VLSI Bublishers ACM Proce	- The second sec
.1. V .11	Publisher: ACM Press	
	Full text available: pdf(333_42_K8) Additional Information: full citation, abstract, references, index terms	
	Multi-project wafer has become a low-cost avenue to gain access to more advanced process technology via amortizing mask cost among chips placed on the same reticle (called reticle floorplanning). Assuming chips have flexible dimensions, we propose a nonlinear programming model for reticle floorplanning to optimize reticle area and make more chips with same width or height. The model allows co-existence of chips with fixed and flexible aspect ratios and can be solved within half an hour. For the	
	Keywords: dicing, mask cost, multi-project wafer, reticle floorplanning	
9	AUTOSCHED AP by AutoSimulations Tyler Phillips	
	December 1998 Proceedings of the 30th conference on Winter simulation Publisher: IEEE Computer Society Press	
	Full text available: pdf(41.31 KB) Additional Information: full citation, references, index terms	
10	Future Design Trends: A roadmap and vision for physical design Andrew B. Kahng April 2002 Proceedings of the 2002 international symposium on Physical design	10000000
.r. ∀ 11.	Publisher: ACM Press	
	Full text available: pdf(305.03 KB) Additional Information: full citation, abstract, references, citings, index terms	
	This invited paper offers "roadmap and vision" for physical design. The main messages are as follows. (1) The high-level roadmap for physical design is static and well-known. (2) Basic problems remain untouched by fundamental research. (3) Academia should not overemphasize back- filling and formulation over innovation and optimization. (4) The physical design field must become more mature and efficient in how it prioritizes research directions and uses its human resources. (5) The scope of physi	
11	Semiconductor manufacturing: Simulation-based solution of load-balancing problems in the photolithography area of a semiconductor wafer fabrication facility Lars Mönch, Matthias Prause, Volker Schmalfuss December 2001 Proceedings of the 33nd conference on Winter simulation Publisher: IEEE Computer Society	
	Full text available: pdf(230.41 KB) Additional Information: full citation, abstract, references, index terms	
	In this paper we present the results of a simulation study for the solution of load-balancing problems in a semiconductor wafer fabrication facility. In the bottleneck area of photolithography the steppers form several different subgroups. These subgroups differ, for example, in the size of the masks that have to be used for processing lots on the steppers of a single group. During lot release it is necessary to distribute the lots over the different stepper groups in such a way that global targ	
	Design technology productivity in the DSM era (invited talk) Andrew B. Kahng	
	January 2001 Proceedings of the 2001 conference on Asia South Pacific design	

automation

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Future requirements for design technology are always uncertain due to changes in process technology, system implementation platforms, and applications markets. To correctly identify the design technology need, and to deliver this technology at the right time, the design technology community - commercial vendors, captive CAD organizations, and academic researchers - must focus on improving design technology time-to-market and quality-of-result. Put another way, we must address the well-known ...

13 Reticle enhancement technology: implications and challenges for physical design W. Grobman, M. Thompson, R. Wang, C. Yuan, R. Tian, E. Demircan June 2001 Proceedings of the 38th conference on Design automation Publisher: ACM Press Additional Information: full citation, abstract, references, citings, index Full text available: pdf(228.37 KB) terms In this paper, we review phase shift lithography, rule vs. model based methods for OPC and model-based tiling, and discuss their implications for layout and verificat ion. We will discuss novel approaches, using polarizing films on reticles, which change the game for phase-shift coloring, and could lead to a new direction in c:PSM constraints on physical design. We emphasize the need to do tiling that is model-driven and uses optimization techniques to achieve planarity for better manufactu ... Keywords: OPC, PSM, RET, mask data preparation, optical proximity correction, reticle enhancement technology, subwavelength lithography, tiling 14 Modeling the lot selection process in semiconductor photolithography processing Thomas C. McGuigan December 1992 Proceedings of the 24th conference on Winter simulation **Publisher: ACM Press** Full text available: pdf(351.05.KB) Additional Information: full citation, references, index terms 15 Session 1D: issues in timing estimation: Impact of systematic spatial intra-chip gate length variability on performance of high-speed digital circuits Michael Orshansky, Linda Milor, Pinhong Chen, Kurt Keutzer, Chenming Hu November 2000 Proceedings of the 2000 IEEE/ACM international conference on Computer-aided design Publisher: IEEE Press Full text available: pdf(154.95 KB) Additional Information: full citation, abstract, references, citings Using data collected from an actual state-of-the-art fabrication facility, we conducted a comprehensive characterization of an advanced 0.18µm CMOS process. The measured data revealed significant systematic, rather than random, spatial intra-chip variability of MOS gate length, leading to large circuit path delay variation. The critical path value of a combinational logic block varies by as much as 17%, and the global skew is increased by 8%. Thus, a significant timing error (~25%) ...

unleash extra capacity
Robert C. Kotcher

16 Semiconductor manufacturing: How "overstaffing" at bottleneck machines can

December 2001 Proceedings of the 33nd conference on Winter simulation

	Publisher: IEEE Computer Society Full text available: pdf(315.46 KB) Additional Information: full citation, abstract, references, index terms	
	Using simulation, Headway Technologies predicted that increasing staffing among a group of already lightly loaded machine operators"overstaffing"would significantly improve throughput of its factory. This was counterintuitive since the operators already had significant idle time. Yet time studies confirmed that bottleneck equipment for which these operators were responsible was spending over 22% of its uptime idle solely due to lack of an operator. Analysis showed how this could be so: pro	
17	Simulation in automated material handling systems design for semiconductor manufacturing Gajanana Nadoli, Devadas Pillai December 1994 Proceedings of the 26th conference on Winter simulation Publisher: Society for Computer Simulation International Full text available: pdf(713.86 KB) Additional Information: full citation, references, citings, index terms	
18	CAD: Practical slicing and non-slicing block-packing without simulated annealing Hayward H. Chan, Igor L. Markov April 2004 Proceedings of the 14th ACM Great Lakes symposium on VLSI Publisher: ACM Press Full text available: pdf(209.83 KB) Additional Information: full citation, abstract, references, index terms	- Constant
	We propose a new floorplanner BloBB based on multi-level branch-and-bound. It is competitive with annealers in terms of runtime and solution quality. We empirically quantify the gap between optimal slicing and non-slicing floorplans by comparing optimal packings and best seen results. Optimal slicing and non-slicing packings for apte, xerox and hp are reported. We also discover that the soft versions of all MCNC benchmarks, except for apte, and all GSRC benchmarks can Keywords: block-packing, branch-and-bound, evaluation, floorplanning, hierarchical,	
	large-scale, optimal, slicing, soft blocks	
19	Operational simulation of an x-ray lithography cell: comparison of 200mm and 300mm wafers K. Preston White, Walter J. Trybula December 1999 Proceedings of the 31st conference on Winter simulation: Simulation——a bridge to the future - Volume 1 Publisher: ACM Press Full text available: pdf(138.94 KB) Additional Information: full citation, references, index terms	
	The evolution of design automation to meet the challanges of VLSI Lawrence M. Rosenberg June 1980 Proceedings of the 17th conference on Design automation Publisher: ACM Press Full text evolutions: ** Part 1997 27 KB) Additional Information: full citation, abstract, references, citings, index	
	Full text available: pdf(997.27 KB) Additional information: full citation, abstract, references, citings, index terms This paper presents the author's opinion of the major problems confronting Design	
	Automation for VLSI and how Design Automation may evolve to meet these challenges. The paper first takes a historical look at the driving forces for Design Automation development by analyzing the evolution of Design Automation at RCA. It looks at both	

some successful and unsuccessful development efforts and attempts to isolate some of the criteria necessary for success. It review RCA's current LSI Design Autom \dots

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